

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/389,000

BATCH (1643)
(3-10)

DATE: 03/22/2000
TIME: 11:54:22

Input Set: I389000.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

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1 <110> APPLICANT: Afar, Daniel E.
2   Hubert, Rene S.
3   Raitano, Arthur B.
4 <120> TITLE OF INVENTION: PHELIx: A TESTIS-SPECIFIC PROTEIN EXPRESSED IN CANCER
5 <130> FILE REFERENCE: 1703-018.US1
6 <140> CURRENT APPLICATION NUMBER: US/09/389,000
7 <141> CURRENT FILING DATE: 1999-08-31
8 <150> EARLIER APPLICATION NUMBER: 60/098,610
9 <151> EARLIER FILING DATE: 1998-08-31
10 <150> EARLIER APPLICATION NUMBER: 60/106,524
11 <151> EARLIER FILING DATE: 1998-10-03
12 <160> NUMBER OF SEQ ID NOS: 12
13 <170> SOFTWARE: PatentIn Ver. 2.1
14 <210> SEQ ID NO 1
15 <211> LENGTH: 2128
16 <212> TYPE: DNA
17 <213> ORGANISM: Homo sapiens
18 <400> SEQUENCE: 1
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20   tgtcttgtgc tctaaggtgc tgaggggaaa gacgcgggag gtctctggcc tgacactatg 120
21   aaggaagaga gaaactacaa cttcgacggt gtgagcacca accgcctgaa acagcagttg 180
22   ctggaagaag tccgcaagaa gtagtgaatg gaaaacccgt tatgagacac aacttgaatt 240
23   aaatgatgaa ctagaaaagc aaattgttta tctcaaggag aaagtggaaa aaatccatgg 300
24   aaactcttca gatagactat cttctattcg tgtctatgaa cgaatgccag tggaatcctt 360
25   aaacacatta cttaaacagc tagaagaaga aaagaagact cttgaaagtc aagtgaataa 420
26   ctatgcactt aaactggaac aagaatcaaa ggcttaccag aagatcaaca atgaacgccg 480
27   tacataccta gctgaaatgt ctcaggggtc tgggtttacat caagtttcta aaaggcaaca 540
28   ggtggatcaa ctgcctagga tgcaagagaa tctagtgaaa acgcaaaaat agacatctta 600
29   ttagttggag atgtcactgt gggctacctg gctgatactg tacagaaact atttgcaaac 660
30   atagcagaag tcaccatcac catcagtgac acgaaggagg cagcagcgct tttggatgat 720
31   tgcataattca acatggttct cttgaagggt ccttcttcac taagtgccga ggagctggaa 780
32   gccatcaagt taattagatt tggcaaaaag aaaaatacac attcactgtt tgtttttata 840
33   atccctgaaa attttaaaag ttgtatttca gggcatggaa tggatattgc ttttaactgaa 900
34   ccactgacaa tggaaaaaat gagtaatgtg gtaaaatact ggacaacatg tccctcaaac 960
35   actgttaaga ctgaaaacgc aactgggcct gaagaacttg gattgcccct gcagaggtcc 1020
36   tacagcgaac acctgggata ttttcctact gatctatttg cctgctctga atctttaagg 1080
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40   gaggcaacag ttgattatgt gaaatatatc cgggagaaaa tctctccagc cgttatggcc 1320
41   cagattacag aagcacttca gagcaacatg aggttttgta agaaacaaca aacacccatt 1380
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43   tcccctgaga gagggctcca attcctgact aatacgtgct ggaatgggtg ctccactcct 1500
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PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/389,000DATE: 03/22/2000
TIME: 11:54:22

Input Set: I389000.RAW

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45 gctattggtg atccatataa aactcacatt tccagtgcag cgctgtctct gaattccttg 1620
46 catactgtca gatattattc taaagtcacc ccttcctacg atgcaactgc tgtaacaaat 1680
47 cagaacattt caattcattt accttcagcc atgcccccg tctcaagctt ctccctcggc 1740
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50 gacaatctag gaaaagtggg acaaaagaatg attttgaaag ctccacccaa agaccttaata 1920
51 tcaaaagagt tggcatgggt tggcttctga taaatgcact caaagcttct gcagatagaa 1980
52 agaccagcag cgaaaaagct ggccacacac tgtcactcat cttcatacac acttggatcc 2040
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56 <211> LENGTH: 405

57 <212> TYPE: PRT

58 <213> ORGANISM: Homo sapiens

59 <400> SEQUENCE: 2

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63 20 25 30
64 Phe Val Phe Ile Ile Pro Glu Asn Phe Lys Gly Cys Ile Ser Gly His
65 35 40 45
66 Gly Met Asp Ile Ala Leu Thr Glu Pro Leu Thr Met Glu Lys Met Ser
67 50 55 60
68 Asn Val Val Lys Tyr Trp Thr Thr Cys Pro Ser Asn Thr Val Lys Thr
69 65 70 75 80
70 Glu Asn Ala Thr Gly Pro Glu Glu Leu Gly Leu Pro Leu Gln Arg Ser
71 85 90 95
72 Tyr Ser Glu His Leu Gly Tyr Phe Pro Thr Asp Leu Phe Ala Cys Ser
73 100 105 110
74 Glu Ser Leu Arg Asn Gly Asn Gly Leu Glu Leu Asn Ala Ser Leu Ser
75 115 120 125
76 Glu Phe Glu Lys Asn Lys Lys Ile Ser Leu Leu His Ser Ser Lys Glu
77 130 135 140
78 Lys Leu Arg Arg Glu Arg Ile Lys Tyr Cys Cys Glu Gln Leu Arg Thr
79 145 150 155 160
80 Leu Leu Pro Tyr Val Lys Gly Arg Lys Asn Asp Ala Ala Ser Val Leu
81 165 170 175
82 Glu Ala Thr Val Asp Tyr Val Lys Tyr Ile Arg Glu Lys Ile Ser Pro
83 180 185 190
84 Ala Val Met Ala Gln Ile Thr Glu Ala Leu Gln Ser Asn Met Arg Phe
85 195 200 205
86 Cys Lys Lys Gln Gln Thr Pro Ile Glu Leu Ser Leu Pro Gly Thr Val
87 210 215 220
88 Met Ala Gln Arg Glu Asn Ser Val Met Ser Thr Tyr Ser Pro Glu Arg
89 225 230 235 240
90 Gly Leu Gln Phe Leu Thr Asn Thr Cys Trp Asn Gly Cys Ser Thr Pro
91 245 250 255
92 Asp Ala Glu Ser Ser Leu Asp Glu Ala Val Arg Val Pro Ser Ser Ser
93 260 265 270
94 Ala Ser Glu Asn Ala Ile Gly Asp Pro Tyr Lys Thr His Ile Ser Ser

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PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/389,000

DATE: 03/22/2000
TIME: 11:54:22

Input Set: I389000.RAW

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95          275          280          285
96      Ala Ala Leu Ser Leu Asn Ser Leu His Thr Val Arg Tyr Tyr Ser Lys
97          290          295          300
98      Val Thr Pro Ser Tyr Asp Ala Thr Ala Val Thr Asn Gln Asn Ile Ser
99      305          310          315          320
100     Ile His Leu Pro Ser Ala Met Pro Pro Val Ser Ser Phe Ser Leu Gly
101          325          330          335
102     Thr Ala Leu Leu Gly Trp Ala Arg Arg Ala Leu His Ile Pro Thr Val
103          340          345          350
104     Cys Asn Ser Phe Gly Arg Ile Lys Ser Thr Cys Leu Lys Phe Thr Leu
105          355          360          365
106     Ser Thr Thr Tyr Trp Ala Gln Phe Asp Asn Leu Gly Lys Val Glu Gln
107          370          375          380
108     Arg Met Ile Leu Lys Ala Pro Pro Lys Asp Leu Ile Ser Lys Glu Leu
109     385          390          395          400
110     Ala Trp Phe Gly Phe
111          405
112 <210> SEQ ID NO 3
113 <211> LENGTH: 50
114 <212> TYPE: PRT
115 <213> ORGANISM: Rattus norvegicus
116 <400> SEQUENCE: 3
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120         20          25          30
121     Arg Ala Gln Ile Leu Asp Lys Ala Thr Glu Tyr Ile Gln Tyr Met Arg
122         35          40          45
123     Arg Lys
124         50
125 <210> SEQ ID NO 4
126 <211> LENGTH: 24
127 <212> TYPE: PRT
128 <213> ORGANISM: Brachydanio rerio
129 <400> SEQUENCE: 4
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133         20
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135 <211> LENGTH: 14
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Description of Artificial Sequence: cDNA synthesis
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141 <400> SEQUENCE: 5
142     ttttgatcaa gctt
143 <210> SEQ ID NO 6
144 <211> LENGTH: 42

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PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/389,000DATE: 03/22/2000
TIME: 11:54:22

Input Set: I389000.RAW

145 <212> TYPE: DNA
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147 <220> FEATURE:
148 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA Adaptor 1
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152 <211> LENGTH: 40
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA Adaptor 2
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160 <211> LENGTH: 22
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR primer 1
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169 <212> TYPE: DNA
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171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: Nested primer
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178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
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183 <400> SEQUENCE: 10
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188 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
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191 22P4G9.1
192 <400> SEQUENCE: 11
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PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/389,000DATE: 03/22/2000
TIME: 11:54:22

Input Set: I389000.RAW

195 <211> LENGTH: 24
196 <212> TYPE: DNA
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199 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR primer
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PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/389,000

DATE: 03/22/2000
TIME: 11:54:22

Input Set: I389000.RAW

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